

10/589220

IAP11 Rec'd PCT/PTO 11 AUG 2006

58192/S318

# ABSTRACT OF THE DISCLOSURE

Positron emitting compounds and methods of their production are provided. The compounds have the formula:  $(F)_m G (R)_n$  wherein each R is a group comprising at least one carbon, nitrogen, phosphorus or sulfur atom and G is joined to R through said carbon, nitrogen, phosphorus or sulfur atom; G is silicon or boron; m is 2 to 5 and n is 1 to 3 with  $m + n = 3$  to 6 when G is silicon; m is 1 to 3 and n is 1 to 3 with  $m + n = 3$  to 4 when G is boron; and wherein the compound further comprises one or more counterions when the above formula is charged; and wherein at least one F is  $^{18}F$ .

DBP/mac

MAC PAS695507.1-\*-08/11/06 9:47 AM